

Over the time, you will not only save money as you don't have to pay for petrol to operate this machine, you will also help create a better and greener environment.

You may find that some functions introduced in this manual have never been seen in other types of vehicles you have ever purchased before. The content and technical specifications in this manual are valid when sent to print. Our company reserves the right to alter and change technical specification or design without prior notice.

To ensure that the GiantPlus brings you the best riding experience, we advise for users to read the manual carefully and you will learn how to ride this future transporter. Please keep the user manual safe, for future references.

Reading the user manual carefully is important in order to know your responsibilities. Maintain the GiantPlus according to the user manual to keep the scooter in the best condition.

We sincerely wish you a happy riding experience.

Safety Instructions

For adults use only!

Please abide by your local traffic regulations!

Please wear a helmet, knee and elbow guards for safety purposes.

Please read the relevant riding guidelines in this manual!

It is hard for us to list all associated dangers when riding and maintaining GiantPlus, therefore, please be careful and pay attention to the safety of yourself and others when riding.

The user manual contains important safety information. Please read carefully.

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CHAPTER I

Introduction

The working principle of the two wheeled scooter is based on the basic principle called “dynamic stability” which is the automatic balance ability of the vehicle itself. After judging body posture position with a built-in precision solid gyroscope, the vehicles electronic brain works out proper instructions through a sophisticated and high-speed central microprocessor, the 36V-15Ah battery drives the motor to balance the vehicle.

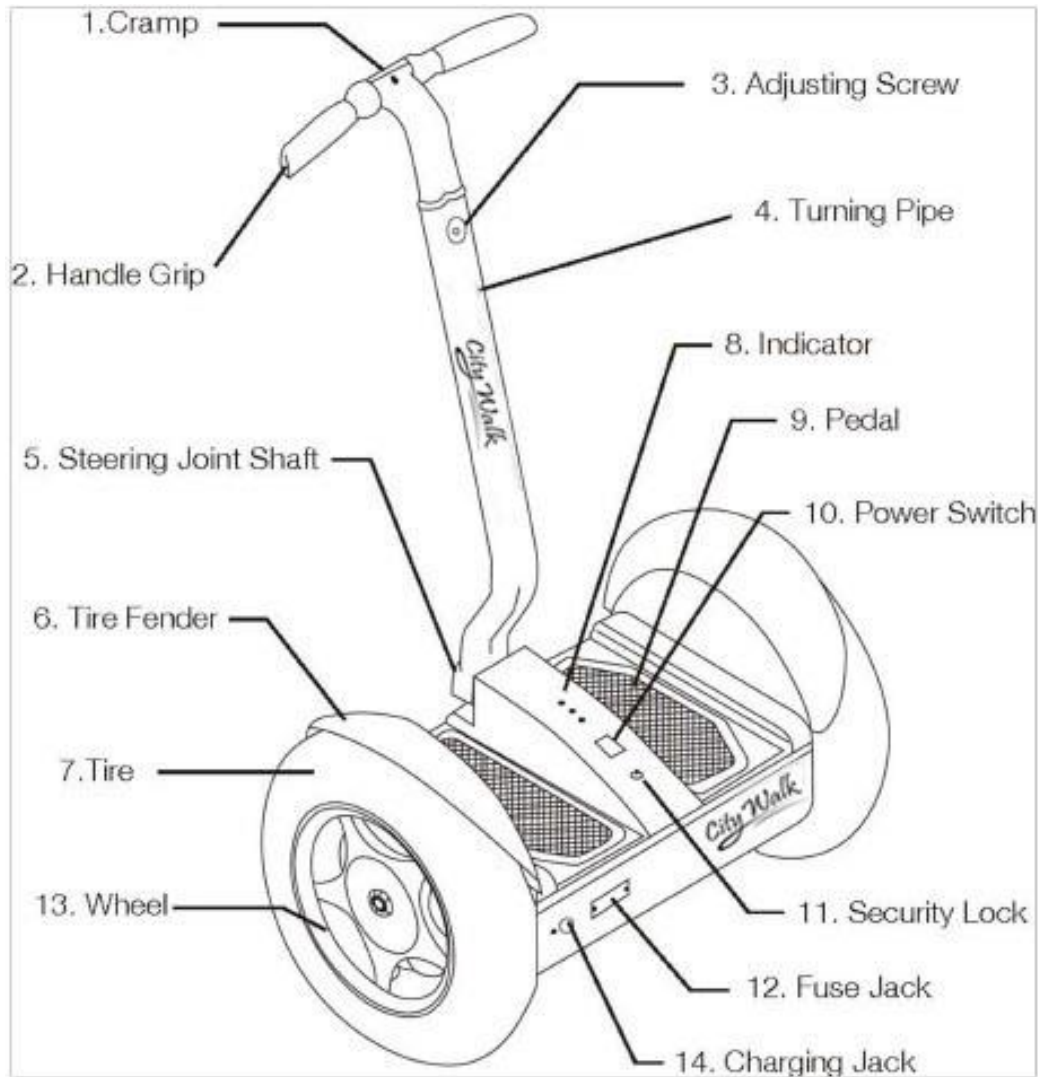
As a new transporter, GiantPlus is difficult to classify in the traditional way, some people think that GiantPlus should be a kind of double-wheeled unicycle, while other people think it should be classed as a power stand-up scooter. With its uniaxle double design which is different from the traditional biaxle double scooter, for official road regulations, this transporter is called Electric Personal Assistive Mobility Device (EPAMD)

The vehicle is equipped with dual wheel and is as wide as a normal adults’ shoulder. It weighs 30 kg and is battery-operated. It is not necessary to have a brake or throttle when riding. When the riders lean their body forward, GiantPlus will run forward and when the body is upright, it will stop. It uses the dynamic balance principle, as the body moves to change the center of gravity so as to keep balance. Just as the human body stands and leans forwards it can lose balance, but the body’s natural instinct will maintain balance, the dynamic stability replicates this. GiantPlus uses the wheels to replace the function of the feet, reproducing the high precision balance action of a human, it is also inexpensive and convenient to use. The energy comes from repeat charging Lithium battery, which are free from maintenance. If sufficient power is supplied to your battery, the full charge capacity will last continuous for 5 hours riding. the riding range depends on the way you ride and ground conditions, riding on grass and slopes will consume more riding power.

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CHAPTER II

Parts Explanation



1. Handle Bar/Turning Pipe

- (1) Used to control and make the GiantPlus turn left or right, turn around, rotate 360 degrees. It also has support function and can play a subsidiary role in keeping body balance.
- (2) The height is adjustable. The rider can adjust it according to his or her own height to make the handle bar comfortable.
- (3) Lock the steering rod after adjustment, then turn the handle bar to confirm that it has had been locked.
- (4) Above adjustment of the handle bar/ turning pipe should be locked in position before riding.
- (5) The turning pipe can be taken apart easily for carrying of storage.

2. Power Switch

- (1)

The power switch is used to turn on and off the power, when the power switch is on the GiantPlus will finish the initialization-settings.

(2)

It is dangerous to stand on GiantPlus without turning on the power.

3. Pedal Switch (SAFE switch)

(1)

The pedal can be active up or down, it has a built in safety switch. GiantPlus can check whether someone on scooter by pedal switch.

(2)

The pedal switch has a safety feature, which if the rider leaves the GiantPlus; the pedal switch will reset and then will stop after 2 seconds.

4. Indicator Lights on Pedal

(1)

Green light (Operating light 1) Display system working state and battery state.

(2)

Orange light (warning light 2) Display overload and battery state.

(3)

Red light (warning light 3) Display alarm message and battery state

CHAPTER III

Getting Started

1. The Right Starting Operation

Hold the turning pipe/handle bar with one hand, keeping the pedal upright, turn on the power making the green light stay on continuous, indicating starting is successful (refer to picture 2,3,4). Then after hold the handlebar firmly with two hands (refer to picture 5). Make sure the pedal is placed upright and then turn on the power switch. Because GiantPlus will considers the current pedal position as its original position setting. This is a very important step. If the original position is not set correctly, it will upset the vehicle's balance during riding



2. The Wrong Starting Operation (refer to picture 6 & 7)

GiantPlus will consider the current pedal's position as its original position setting, so it is hard for rider to stand on GiantPlus if the pedal is not vertical. The original position can be reset after repeated power on and off. For example, you can turn off GiantPlus and put the pedal vertical, then turn it on and test it, try this adjustment until it is in best state.



3. Correct Example As Follows (refer to picture 8)

(Must keep GiantPlus before powering on)



Picture 8

CHAPTER IV

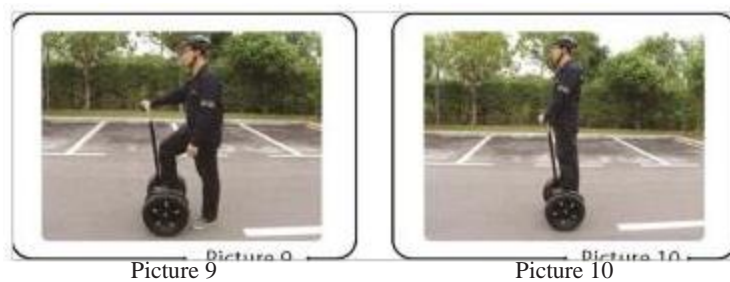
Riding

Riding the GiantPlus 2-wheel self-balance vehicle is totally different from anything you may have ridden before. GiantPlus does not have brakes, accelerator or gear system. Please read the user manual or get instruction from an experienced person before your first ride.

GiantPlus is very addictive once you enjoy the fun of riding, you can't help yourself riding it whenever you get the chance, following these instructions will be beneficial for your enjoyment.

1. Standing on GiantPlus

After switching on, hold the handlebar with your left hand while stepping onto the pedal with your right foot (refer to picture 9); or hold the handlebar with your right hand, while stepping onto the pedal with left foot. When you press down the pedal switch, GiantPlus will start computer balance, and you will feel very secure. The order is the left hand is to the right foot or the right hand is to the left foot. By this time you will have stood on the balanced scooter. Stand upright without any action, just relax and keep your balance, GiantPlus will maintain stop in its original place (refer to picture 10)



2. Riding straight forward

Lean your body forward slowly using the centre of gravity, this will make the GiantPlus move forward (refer to picture 11). The riding speed is controlled by the leaning angle of your body the more you lean the faster you will go, the less the slower. For stable riding, we suggest leaning forward slowly. It is dangerous to lean forward suddenly; this is just like sudden acceleration when riding a car.



3. Breaking and Riding Backward

Riding backward is not recommended for the rider's safety, because it is hard for you to see behind when riding. GiantPlus turning radius is zero, which you can easily

achieve in a continuous spin around 360 degrees on the spot. When you ride forward in a straight line and you want to slow down or stop, you can lean backward or squat down (the center of gravity backward). Lean slowly or smoothly backward is helpful for slowing down and stopping safely (refer to picture 12).



Picture 12

Tip: Riding forward in a straight line you just simply push the handle forward, then backward to slow down or stop.

4. Turning at Original Place, Turn Around and Rotate 360

It is easy to turn the GiantPlus when riding. keep the turn pipe / handle bar left-forward or right-forward to the end, at the same time keep your body corresponding, left-forwarded or right-forwarded as the trend of GiantPlus (refer to picture 13 and 14). Thus you can easily achieve various turns. When the GiantPlus faces the right position, you only need return the pipe to the original position and stand straight GiantPlus will stop.



Picture 13



Picture 14

5. Turning in Riding Degrees

The GiantPlus's turning range is calculated automatically according to the riding speed, when the speed is faster, the turn range will be less to ensure safety of the rider, it is stopped by the turning pipe and body's cooperation. To turn left, the turning pipe should be swung smoothly to the left at the same time as your body leans left. The angle of GiantPlus's turning is decided by both the swinging angle of the turning pipe and the leaning of your body.

Tip: The actual turning is finished by the above combination of actions, riding the GiantPlus is like a combination of riding horses and skiing. **GiantPlus** is also called a thinking car. Which means the rider can ride **GiantPlus according to his/her thoughts.**

6. Riding in Bad Weather

GiantPlus is not waterproof please do not ride GiantPlus on rainy days. The motherboard and the motor are easily damaged if water gets into the electric elements. GiantPlus cannot be ridden in the snow. GiantPlus does not have night lights, so please do not ride GiantPlus in the dark. In Australia, GiantPlus is hard to define, so please don't ride on public roads used for motor vehicles. When riding on the sidewalk, one-way street or public places, please comply with local traffic regulations and the local by laws.

CHAPTER VI

Charging

When the orange lamp and red indicator is continuously on, it shows the battery needs to be charged. First, turn off the power switch and use the specialized 36 V battery charger, Insert the plug into GiantPlus's charge jack, Then connect the power. When charger is connected the Red light will glow continuously, showing GiantPlus is in charge mode.

The charger has two indicators; the red light means on charge and the green light means fully charged, stop charging. The input voltage of charger is 110-240v, Output voltage is 37-39v, AC electric current is 1.2-1.5 A, The charger takes 2-4 hours to fully charge. When fully charged the green light will be on continuously.

The charging electric current will then decrease output. The charger will become warm when charging, so please keep in suitable place.



Picture 15

Please keep power switch of GiantPlus off when on charge, otherwise, GiantPlus will cause power consumption, which is bad for charging.

CHAPTER V

Maintenance

All other items that are not mentioned below should be done by a professional person or technician

1. The Maintenance of Battery

GiantPlus use BTM free maintenance battery. When you find the orange lamp and red lamp light are continuously on. Please charge. Keep the charging time to no more than 15 hours. If you are not using GiantPlus for long periods, keep it charged, excessive discharge and re-charge is bad for the battery's life and can even lead to having to scrap the battery. (Suggestion: please keep it charged every month even you don't ride it)

2. When not riding GiantPlus

Please turn off the power switch then lock the switch, in case of accidental starting.

3. Replacing Fuse

The fuse of the GiantPlus is 50A car fuse. The fuse may burn after an overload or when crashed. After switching on and there is no action, and the indicator is off, check fuse if it is burnt. Open the fuse cover at the back of the body with a screwdriver, take out the fuse using clamp and replace with a new fuse.

4. Fastening Nut of Tire

Pay attention to the screws on wheels, regularly check, if it is loose tighten with a 21mm spanner to 108 torque.

5. Maintenance of Tire

Normal air pressure is basic to guarantee safe riding. The standard tire Pressure is $250 \text{ kpa} = 2.5 \text{ bar} = 2.55 \text{ kg/cm}^2 = 36.25 \text{ psi}$, (as recommended), It is necessary to check the tire pressure regularly, under inflation and excessive inflation will cause unequal tire wear, which influences comfort and mileage and shorten the life of tire, under-inflated tires also influence power saving. Also check for cuts and splits which could cause the tire to deflate at a rapid rate, which could cause injury to the rider

6. Appearance Cleaning

It is necessary to keep the pedal and body of GiantPlus clean. Please clean any gravel, solid and mud off after riding. Do not use any corrosive chemical

i.e. petrol to clean GiantPlus. Clean GiantPlus by using a soft cloth and brush and do not wash GiantPlus with water.

CHAPTER VI

Notice

1. keep Pedal of GiantPlus Horizontal

GiantPlus will consider the current pedal position as its original position setting when power on. Pedal must not be horizontal after the power is switched on; it is hard for the rider to stand on GiantPlus if the pedal is not vertical. The position of pedal may

have change when gyroscope has not warmed up. If the position of pedal is in the wrong position when started, adjust by repeated power on-off.

2. Balance Output of GiantPlus

Computer balance will start immediately after you press the pedal switch of GiantPlus. If you keep pressing the pedal switch, the computer balance will always start, the computer will keep balance even if the pedal switch is restored (the pedal switch is pulled up) when at a low speed. In case rider needs leave and push the GiantPlus. Please pay attention, GiantPlus will have a tendency to move forward even if without load, the GiantPlus will keep computer balance. Therefore do not leave GiantPlus without a rider on the road, GiantPlus will run automatically by itself until it falls down. It is normal.

3. GiantPlus Standing

When you want to make GiantPlus stand after riding, you can turn off power and put bracket down

1. Accidental Submersion

Turn the power off immediately if GiantPlus falls into water accidentally. Do not ride it again if you are not sure. If any fault does not correct itself the GiantPlus weighs 30 kg. You can pull it easily without power home and then contact us; we will give you after service guide.

2. Lock Switch

Lock GiantPlus to prevent running by accident. Power off then lock, when you power on again, red light will flash 4 times, it means your GiantPlus is locked. When you switch the power on and GiantPlus starts to initialize will think the GiantPlus it will lead the pedal switch short circuit. The GiantPlus will think that rider has stood on it and then start automatic balance. It is dangerous to ride GiantPlus in this case, because pedal switch will keep connected. GiantPlus will not stop and keep moving all the time.

CHAPTER VII

Sound Alarm

1. Please remember, pedal switch must be in right position (the pedal switch is pressed down), or GiantPlus will switch off power and the rider will lose balance.

2. Sound alarm 4 times

Pedal problem also can lead alarm 4 times, you can press pedal switch several times by using your hand to make pedal restore (the pedal switch is pressed down), then power on GiantPlus if alarm still on, please contact us.

3. Sound alarm 3 or 2 times

The vehicle may have a problem when you see the following situation after the power is turned on. Sound alarm 2 times: problem with gyroscope. Sound alarm 2 times: problem with accelerometer. In above two situations, it means that the transducer is experiencing a problem. Please turn off power and stop riding, then contact us.

5. Sound alarm

LCD displayer shows the battery power is no more than 30 % ; battery power run out and must be charged immediately.

Always keep battery charged before it fully runs out. It can cause damage to battery and will reduce battery life.

CHAPTER IX

Technical Data

Net Weight	30 kg
Dimension	43*43*68 cm
Max cruise speed	18km/h
Max load	120 kg
Max. Mileage (after full charging)	30-35km
Max climb capability	30 degree
Min turning radius	0
Charging time	2h -4h
Battery	Lithium,36V,15Ah
Voltage	100V-240V
Max Power	1000 watts
Lifetime of battery	1-3 years
Tire	17 in / 43 cm vacuum smooth
Wheel	12 in / 26 cm Black Aluminum Rim
Height of handle	80-110 cm adjustable
Height of footplate	10in/26cm
Specification of footplate	11.5x25 in / 16 x 40 cm
Max. Height above ground	13 cm
Standard Pressure	250 kpa
Certificates	CE & ROHS & FCC

CHAPTER X

Warranty

If you have any issues with your GiantPlus please send us an email to to our distributor in your country

Note that we provide a 12 months parts only warranty for faults derived from natural causes.

Faults derived due to accidents are not covered by the warranty. We can still service the GiantPlus but there will be charges applied.

Instruction for remote switch



Each GiantPlus comes with a remote switch in its package, which has following functions when GiantPlus was powered on:

1. Towing mode: You can grab the handle bar and pull GiantPlus very easily when you want to walk rather than riding, meet with cliffy slop out GiantPlus's climbing ability, got stares on your way, or just want to save power without load.
2. Cancel towing mode: We don't recommend you to ride in towing mode, if you have to, please cancel it by press this button.
3. Middle Speed 12Km/h: The normal speed set is 18 km/h which would be dangerous for beginners to experience, it would be better for beginners to experience at speed limit of 12km/h.
4. Beginner mode 8km/h: The best option for beginners to get trained under a professional or experienced guy in concerning of safety of riders.

Please keep the remote switch carefully to avoid lost, if you lost it, please send an email or call up our distributor in your country to get a new one and learn to match code